



HYDROBLOC FGR 45

1

Heavy Duty Fiberglass Reinforcement Tissue – 45 g/m²

Product Description:

HYDROBLOC FGR 45 is a heavy-duty fiberglass reinforcement tissue designed for demanding waterproofing and protective coating applications where enhanced reinforcement and durability are required. The tissue significantly improves tensile strength, crack-bridging performance, impact resistance, and long-term membrane stability. It is particularly suitable for exposed roof waterproofing, podium decks, marine structures, water-retaining structures, and areas subjected to movement or thermal cycling.

Key Features & Benefits:

- Higher reinforcement capacity
- Superior crack distribution control
- Improved puncture resistance
- Excellent dimensional stability
- Increased waterproofing system durability
- Rot-proof and corrosion resistant
- Excellent compatibility with liquid-applied membranes
- Easy application and embedding
- Enhanced crack-bridging performance
- Long-term reinforcement stability

Areas Of Application:

- Roof waterproofing systems
- Podium decks
- Exposed terraces
- Water tanks
- Retaining walls
- Marine and coastal structures
- Basement waterproofing
- Planter boxes
- Bridge decks
- Crack and joint detailing

Surface Preparation:

Substrates must be structurally sound, clean, and free from dust, grease, oil, laitance, and other contaminants. The surface should be dry or prepared in accordance with the waterproofing membrane manufacturer's recommendations.

HEAD OFFICE: Plot # 70/5, Timber Pond, East Wharf Road, Keamari-Karachi 75620

TELEPHONE: +92 300 2288788

WEBSITE: www.patsapakistan.com EMAIL: info@patsapakistan.com



HYDROBLOC FGR 45

Mixing Instructions:

HYDROBLOC FGR 45 is supplied ready for use and does not require mixing.

Application Guidelines:

- Apply the first coat of the selected waterproofing membrane.
- Immediately embed HYDROBLOC FGR 45 into the wet membrane.
- Ensure complete saturation and wet-out of the reinforcement tissue.
- Remove trapped air and wrinkles using a roller or suitable tool.
- Allow the membrane coat to cure as recommended.
- Apply subsequent membrane coats to fully encapsulate the reinforcement.

Overlap Requirements

- Side Overlap: Minimum 50 mm
- End Overlap: Minimum 75 mm

Coverage/ Consumption:

Coverage is based on the reinforcement area installed.

Parameter	Value
Roll Width	1.0 m
Roll Length	100 m
Roll Area	100 m ²

Curing & Protection:

Protect installed reinforcement from contamination, damage, and adverse weather conditions until fully encapsulated within the waterproofing system. Follow the curing requirements of the selected membrane system.

Packaging:

Format	Standard
Roll Width	1.0 m
Roll Length	100 m
Roll Area	100 m ²

Custom dimensions available upon request.



HYDROBLOC FGR 45

3

Storage & Shelf life:

Store in original unopened packaging in a dry, covered environment away from direct sunlight and moisture.

Storage Temperature: +5°C to +35°C

Shelf Life: 24 Months when properly stored.

Health & Safety:

Wear suitable gloves, protective clothing, and safety glasses during handling and installation. Avoid inhalation of airborne fibers and wash exposed skin after handling. Refer to the relevant Safety Data Sheet (SDS) before use.

Technical Data

Property	Unit	Typical Value
Product Type	-	Fiberglass Reinforcement Tissue
Area Weight	g/m ²	40 ± 10%
Actual Area Weight	g/m ²	40.3
Thickness	mm	0.4
Binder Content	%	18.4
Tensile Strength (Machine Direction)	N/50 mm	≥ 120
Actual MD Tensile Strength	N/50 mm	231
Tensile Strength (Cross Direction)	N/50 mm	≥ 80
Actual CD Tensile Strength	N/50 mm	130
Colour	-	White
Standard	-	GB/T 26733-2011

Values derived from supplier testing data.



HYDROBLOC FGR 45

System Recommendation

For HYDROBLOC waterproofing membrane systems:

Waterproofing System	Recommended Reinforcement Grade
Acrylic Membranes	FGR 45
Polyurethane Membranes	FGR 30 / FGR 45
Roof Waterproofing	FGR 45
Podium Decks	FGR 45
Water Tanks	FGR 45
Marine Structures	FGR 45
High Movement Areas	FGR 45

HYDROBLOC FGR 45 is recommended where enhanced crack-bridging performance, tensile reinforcement, puncture resistance, and long-term durability are required.

Technical Disclaimer

The information contained herein is based upon laboratory testing and practical experience. Actual performance may vary depending upon substrate condition, application techniques, site conditions, and system design. Users should conduct suitability testing prior to full-scale application. Specifications may be modified without prior notice as part of ongoing product development.